

Appl. No. 10/024,783
Amendment and/or Response
Reply to Office action of 22 January 2004

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Amendments to the Claims:

A listing of the entire set of pending claims (including amendments to the claims, if any) is submitted herewith per 37 CFR 1.121. This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Previously Presented) An electroluminescent device comprising
a pattern-wise ink-jet printed electrode for supplying charges to an electroluminescent layer of the electroluminescent device,
the electrode comprising a metal or a metal alloy that is ink-jet printed in a molten form.
2. (Previously Presented) An electroluminescent device comprising
a patterned electrode for supplying charges to an electroluminescent layer,
the electrode comprising a metal or a metal alloy that is ink-jet printed in a molten form and having a subsequent non-molten transverse profile with a maximum thickness of at least 5 μm .
3. (Previously presented) An electroluminescent device as claimed in claim 1 wherein
the metal or metal alloy has a melting point of 250 °C or less.
4. (Previously presented) An electroluminescent device as claimed in claim 1, wherein
the electrode is an electrode for supplying electrons to the electroluminescent layer.
5. (Original) An electroluminescent device as claimed in claim 4 wherein
the electrode has a work function of 4.5 eV or less.

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6. (Currently amended) An electroluminescent device comprising
a pattern-wise ink-jet printed electrode for supplying charges to an electroluminescent layer of the electroluminescent device,
the electrode comprising a metal or a metal alloy that is ink-jet printed in a molten form,
further comprising
a relief pattern for patterning the pattern-wise ink-jet printed electrode.
7. (Previously presented) An electroluminescent device as claimed in claim 1, wherein
the device is a matrix display device of the passive type comprising
one or more electroluminescent layers sandwiched between row electrodes and column electrodes,
independently addressable electroluminescent elements being formed at crossings of row and column electrodes,
wherein
the row electrodes are pattern-wise ink-jet printed electrodes comprising a metal or a metal alloy.
8. (Previously presented) A battery-operated and/or hand-held electronic device, such as a mobile phone, provided with an electroluminescent device as claimed in claim 1.
9. (Canceled)

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10. (Previously Presented) A method of manufacturing an electroluminescent device comprising a metal or metal alloy electrode provided in accordance with a desired pattern, said method comprising

the deposition of a metal or metal alloy electrode in accordance with the desired pattern on a substrate surface by means of one or more deposition steps,

said deposition including a deposition step of ink-jet printing molten metal or metal alloy on a surface in accordance with the desired pattern thus forming, upon cooling of the molten metal or metal alloy ink-jet printed onto the surface, the metal or metal alloy electrode.

11. (Previously Presented) The method of claim 10, further comprising

forming a relief pattern on the surface to facilitate patterning the pattern-wise ink-jet printed electrode.

12. (Previously Presented) The method of claim 10, wherein

the electrode has a transverse profile with a maximum thickness of at least 5 μm .

13. (Previously Presented) The method of claim 10, wherein

the metal or metal alloy has a melting point of 250 °C or less.

14. (Previously Presented) An electroluminescent device as claimed in claim 1, wherein

the electrode has a work function of 4.5 eV or less.

15. (Previously Presented) An electroluminescent device as claimed in claim 2, wherein

the electrode has a work function of 4.5 eV or less.

16. (Previously Presented) An electroluminescent device as claimed in claim 2, further comprising

a relief pattern for patterning the pattern-wise ink-jet printed electrode.

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17. (Previously Presented) An electroluminescent device as claimed in claim 2, wherein
the device is a matrix display device of the passive type comprising
one or more electroluminescent layers sandwiched between row electrodes and
column electrodes,
independently addressable electroluminescent elements being formed at
crossings of row and column electrodes,
wherein
the row electrodes are pattern-wise ink-jet printed electrodes comprising a metal or a
metal alloy.
18. (Previously Presented) A battery-operated and/or hand-held electronic device, such as a
mobile phone, provided with an electroluminescent device as claimed in claim 2.
19. (Previously Presented) An electroluminescent device of claim 6, wherein
the electrode has a transverse profile with a maximum thickness of at least 5 μm .
20. (Previously Presented) An electroluminescent device as claimed in claim 6, wherein
the metal or metal alloy has a melting point of 250 °C or less.